

Claims

What is claimed is:

Sub
917
5

1. A work machine, comprising:
a main frame;
an engine assembly mounted on said main
frame;
a radiator assembly mounted on said main
frame; and
a transmission assembly (i) mechanically
10 coupled to said engine assembly and (ii) mounted on
said main frame such that said transmission assembly is
interposed between said engine assembly and said
radiator assembly.

Sub
913
15

2. The work machine of claim 1, wherein:
said main frame has a longitudinal axis,
said radiator assembly includes a cooling
core having an upper edge, and
said cooling core is positioned relative to
20 said longitudinal axis such that (i) a linear extension
of said upper edge defines a line L_1 , (ii) a line L_2 is
defined by a line which intersects said longitudinal
axis so as to define a 90° angle α therebetween, (iii)
an angle σ is defined between said line L_1 and said
25 line L_2 , and (iv) $40.0^\circ \leq \sigma \leq 95.0^\circ$.

D3 3. The work machine of claim 1, further comprising a cab assembly mounted on said main frame, wherein:

5 said cab assembly is interposed between said engine assembly and said radiator assembly.

4. The work machine of claim 1, further comprising:

9 10 a work implement coupled to said main frame, and

said radiator assembly is interposed between said work implement and said engine assembly.

15 5. The work machine of claim 4, wherein: said work implement includes ~~a~~ truck bed.

Sub 2H 6. The work machine of claim 1, wherein: said radiator assembly includes (i) a radiator fan and (ii) a cooling core, and
9 20 said cooling core is interposed between said radiator fan and said engine assembly.

7. The work machine of claim 6, further comprising an engine fan mounted on said main frame, wherein:

said engine assembly is interposed between said engine fan and said radiator fan.

Sub 5
8. The work machine of claim 1, further comprising:

a conduit having (i) a first end attached to said engine assembly, (ii) a second end attached to said radiator assembly and, (iii) said engine assembly is in fluid communication with said radiator assembly; and

a cooling fluid which is advanced from said radiator assembly to said engine assembly through said conduit.

9. The work machine of claim 1, further comprising:

a ground engaging mechanism mechanically coupled to said engine assembly;

wherein actuation of said ground engaging mechanism by said engine assembly causes said work machine to be advanced over a ground segment.

Sub 2
10. A work machine, comprising:

a main frame;

an engine assembly mounted on said main frame;

a radiator assembly mounted on said main frame; and

a cab assembly mounted on said main frame such that said cab assembly is interposed between said engine assembly and said radiator assembly.

*Sub
D6*

11. The work machine of claim 10, wherein:
said main frame has a longitudinal axis,
said radiator assembly includes a cooling
core having an upper edge, and

5 said cooling core is positioned relative to
said longitudinal axis such that (i) a linear extension
of said upper edge defines a line L_1 , (ii) a line L_2 is
defined by a line which intersects said longitudinal
axis so as to define a 90° angle α therebetween, (iii)
10 an angle σ is defined between said line L_1 and said
line L_2 , and (iv) $40.0^\circ \leq \sigma \leq 95.0^\circ$.

12. The work machine of claim 10, further
comprising:

15 a work implement coupled to said main frame,
and
 said radiator assembly is interposed between
said work implement and said cab assembly.

20 13. The work machine of claim 12, wherein:
said work implement includes a truck bed.

*Sub
D7*

14. The work machine of claim 10, wherein:
said radiator assembly includes (i) a
25 radiator fan and (ii) a cooling core, and
 said cooling core is interposed between said
radiator fan and said cab assembly.

15. The work machine of claim 14, further comprising:

an engine fan mounted on said main frame such
5 that said engine assembly is interposed between said
engine fan and said radiator fan.

sub

16. The work machine of claim 10, further comprising:

10 a conduit having (i) a first end attached to
said engine assembly, (ii) a second end attached to
said radiator assembly, and (iii) said engine assembly
is in fluid communication with said radiator assembly;
and

15 a cooling fluid which is advanced from said
radiator assembly to said engine assembly through said
conduit.

17. The work machine of claim 10, further comprising:

20 a ground engaging mechanism mechanically
coupled to said engine assembly;

9
25 wherein actuation of said ground engaging
mechanism by said engine assembly causes said work
machine to be advanced over a ground segment.

Sub
a3 1

18. A work machine, comprising:
- a main frame;
- an engine assembly mounted on said main
frame;
- 5 a radiator assembly mounted on said main
frame;
- a cab assembly mounted on said main frame
such that said cab assembly is interposed between said
engine assembly and said radiator assembly;
- 10 a work implement coupled to said main frame;
- and
- a ground engaging mechanism mechanically
coupled to said engine assembly,
- wherein actuation of said ground engaging
15 mechanism by said engine assembly causes said work
machine to be advanced over a ground segment.

add city